

EAST Search History**EAST Search History (Prior Art)**

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	37	((YOSHIYUKI) near2 (SUZURI)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/21 10:01
L2	148	((HIROSHI) near2 (KITA)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/21 10:01
L3	1	((AKI) near2 (NAKATA)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/21 10:02
L4	149	(1 2 3)	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/21 10:02
L5	0	4 and (hole blocking layer percent by weight 20% content phosphorescent compound light emitting electron).clm.	US-PGPUB; USPAT; USOCR	AND	ON	2010/07/21 10:14
L6	0	4 and (hole blocking layer percent by weight content phosphorescent compound light emitting electron).clm.	US-PGPUB; USPAT; USOCR	AND	ON	2010/07/21 10:14
L7	40512	(313/498-512 315/169.1,169.3 428/690-691,917 438/26-29,34,82 257/40,72,98-100,642-643,759 427/66,532-535,539).cds.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/21 10:15
L8	1175	7 and "hole blocking" and "electron blocking"	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/21 10:16
L9	3	8 and ("hole blocking" and "electron blocking") with ("%" per\$1cent\$3) near3 (weight))	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/21 10:17
L10	6	("OLED" "OLED" "organic electroluminescent" "organic EL") and ("hole blocking" "HBL" "electron blocking" "EBL") and weight and ("%" percent\$3)	EPO; JPO; DERWENT	OR	ON	2010/07/21 10:19
L11	1	("6803720").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2010/07/21 10:24
L12	11	("3093796" "63264692" "03255190" "2000021572" "02071813" "0247457").pn.	EPO; JPO; DERWENT	OR	ON	2010/07/21 10:28
S1	29131	(313/498-512 315/169.1,169.3 428/690-691,917 438/26-29,34,82 257/40,72,98-100,642-643,759 427/66,532-535,539).cds.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/18 16:23

S2	4350220	@ad<"20030723"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/18 16:25
S3	1091	(electroluminescen\$2) and (hole near1 block\$3) and (electron near1 block\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/18 16:27
S4	269	S1 and S2 and S3	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/18 16:28
S5	42	(electroluminescen\$2) and (hole near1 block\$3) and (electron near1 block\$3)	EPO; JPO; DERWENT	OR	ON	2008/03/18 16:28
S6	22	S5 and @ad<"20030723"	EPO; JPO; DERWENT	OR	ON	2008/03/18 16:28
S7	22	S4 S6	EPO; JPO; DERWENT	OR	ON	2008/03/18 16:29
S8	269	S4 and (electron near1 block \$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/18 16:33
S9	1211	S1 and (electron near1 block \$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/18 16:36
S10	790	S1 and ("electron blocking")	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/18 16:36
S11	250	S10 and S2	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/18 16:37
S12	180	S11 and ("hole blocking")	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/18 16:38
S13	180	S12 and S1	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/18 16:38
S14	29131	(313/498-512 315/169.1,169.3 428/690- 691,917 438/26-29,34,82 257/40,72,98-100,642- 643,759 427/66,532- 535,539).cds.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 06:20
S15	4350220	@ad<"20030723"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 06:20
S16	790	S14 and ("electron blocking")	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 06:20
S17	250	S16 and S15	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 06:20
S18	180	S17 and ("hole blocking")	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 06:20
S19	30	S18 and ((phosphor\$6 fluorescent) near20 ("blocking"))	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 06:20
S20	180	S18 and ("hole blocking") near1 contains\$3 consist\$3 made include\$1)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 06:42
S21	5	S18 and ("hole blocking") near1 (contains\$3 consist\$3 made include\$1))	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 06:44

S22	23	S16 and ("electron blocking") near1 (contains\$3 consist\$3 made include\$1))	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 06:51
S23	6	S22 and @ad<"20030723"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 06:53
S24	3	("6750608" "5294869" "20020134984").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 07:15
S25	2	("20020134984" "5294869").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 07:23
S26	34	S16 and ("hole blocking") near2 compris\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 07:43
S27	0	S16 and ("hole blocking") near2 iridium)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 08:04
S28	0	S16 and ("hole blocking") near5 iridium)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 08:04
S29	10	S16 and ("hole blocking") near10 iridium)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 08:04
S30	2	("20020134984" "5294869").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/19 08:15
S31	1	"20040115476"	US-PGPUB	OR	ON	2008/03/19 08:16
S32	29	S16 and Firpic	US-PGPUB	OR	ON	2008/03/19 08:36
S33	1	"20030059647"	US-PGPUB	OR	ON	2008/03/19 09:11
S34	2	S16 and (dop\$3 near10 weight near20 ("hole blocking") near20 (emiss\$4 emitt\$3 EL))	US-PGPUB	OR	ON	2008/03/19 09:54
S35	8	S16 and ("hole blocking") near10 plur\$3)	US-PGPUB	OR	ON	2008/03/19 10:21
S36	1	"20040048101"	US-PGPUB	OR	ON	2008/03/19 10:50
S37	1	"20030059647"	US-PGPUB	OR	ON	2008/03/19 10:57
S38	0	S15 and ("electron blocking") near5 (phosphor \$6 fluorescent))	US-PGPUB	OR	ON	2008/03/19 11:07
S39	3	S15 and ("electron blocking") near10 (phosphor \$6 fluorescent))	US-PGPUB	OR	ON	2008/03/19 11:07
S40	36	S15 and ("electron blocking") near10 (compris \$3 made consist\$3 includ \$3))	US-PGPUB	OR	ON	2008/03/19 11:09
S41	32	S15 and ("electron blocking") near5 (compris\$3 made consist\$3 includ\$3))	US-PGPUB	OR	ON	2008/03/19 11:09
S42	22	S15 and ("electron blocking") near2(compris\$3 made consist\$3 includ\$3))	US-PGPUB	OR	ON	2008/03/19 11:09

S43	31	("electron blocking") near10 (phosphor\$6 fluorescent)	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/19 11:21
S44	1098	(electroluminescen\$2) and (hole near1 block\$3) and (electron near1 block\$3)	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 11:17
S45	52	S44 and ("Firpic")	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 11:17
S46	41	S45 and (Firpic near1 (emiss\$3 emit\$3))	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 11:18
S47	17	S46 and @ad< "20030723"	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 11:19
S48	700	S44 and (electron near1 blocking)	US-PGPUB	OR	ON	2008/03/25 12:03
S49	26	S48 and ((electron near1 blocking) near20 (phosphor \$6))	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 12:04
S50	4	S49 and @ad< "20030723"	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 12:08
S51	993	S44 and (electron near1 blocking)	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 12:12
S52	8	S51 and ((electron near1 blocking) near5 (Firpic Ir (ppy)))	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 12:12
S53	0	S52 and ("Ir(ppy)")	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 12:13
S54	48	S51 and Irppy	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 12:14
S55	0	S54 and ((electron near1 blocking) near10 Irppy)	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 12:15
S56	0	S54 and ((electron near1 blocking) near20 Irppy)	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 12:15
S57	13	S54 and ("white light")	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 12:25
S58	9	S44 and ("hole blocking layer") near10 plurality	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 12:29
S59	4493	(428/690,917).cds.	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 12:50
S60	782	S59 and ((electron charge exciton) near1 block\$3)	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 12:50
S61	81	S59 and ((electron near1 block\$3) near5 (consist\$4 compris\$3 made includ\$3))	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 12:52
S62	22	S61 and @ad< "20030723"	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 12:52
S63	0	S60 and ((electron near1 block\$3) near5 plurality)	US-PGPUB; USPAT; USOOR	OR	ON	2008/03/25 13:16

S64	0	S60 and ((electron near1 block\$3) near10 plurality)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/25 13:17
S65	5	S60 and ((electron near1 block\$3) near10 (multiple many several plurality))	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/25 13:17
S66	1503	((electron charge exciton hole) near1 block\$3) near20 (light near1 emi\$5)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/25 13:26
S67	454	S66 and @ad< "20030723"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/25 13:27
S68	376	S67 and (fluorescent luminescent phosphorescen \$2)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/25 13:27
S69	0	S68 and ("amount of light emitted")	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/25 13:32
S70	25	S68 and (light adj emitted) near10 (amount range)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/25 13:34
S71	0	((hole electron charge exciton) near1 block\$3) and (light adj emitted) near10 (amount percent\$3 range)	EPO; JPO; DERWENT	OR	ON	2008/03/25 13:40
S72	1	((hole electron charge exciton) near1 block\$3) and ((light adj emitted) near20 (amount percent\$3 range))	EPO; JPO; DERWENT	OR	ON	2008/03/25 13:41
S73	245	S48 and ("liquid crystal")	US-PGPUB	OR	ON	2008/03/25 14:53
S74	411	S60 and ("blocking layer")	US-PGPUB	OR	ON	2008/03/25 14:55
S75	563	S60 and ("blocking layer")	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/25 14:55
S76	145	S75 and ("liquid crystal")	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/25 14:55
S77	63	S76 and @ad< "20030723"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/25 15:08
S78	1	S75 and (multiple near1 hole)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/25 15:34
S79	172	("hole blocking") near10 (multiple plural\$3 several many numerous)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/25 15:37
S80	57	S79 and @ad< "20030723"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/25 15:37
S81	19496	(hole near1 block\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 09:36

S82	3013	S81 and (OLED OELD electroluminescen\$2)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 09:36
S83	982	S82 and @ad<"20030723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 09:36
S84	54	S83 and ((hole near1 block \$3) near3 (first second one two))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 09:39
S85	0	S83 and (second near1 ("hole blocking"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 09:43
S86	18	(second near1 ("hole blocking"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 09:44
S87	11	(second near1 ("exciton blocking"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 09:48
S88	7	("hole blocking layer 2")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 10:15
S89	1	"7022421".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/26 11:22
S90	7065	(Ga(pma)".sub.3") near40 (phosphor scintillat\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/26 11:33
S91	5955	(Ga(pma)".sub.3") near40 (phosphor)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/26 11:34
S92	2803	(Ga(pma)".sub.3") near5 (phosphor)	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/26 11:34
S93	0	("Ga(pma)") near5 phosphor	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/26 11:35
S94	0	("Ga(pma)") near40 phosphor	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/26 11:35

S95	0	("Ga(pma)") near40 phosphor	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 11:36
S96	0	("Ga\$pma") near40 phosphor	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 11:36
S97	0	Ga near3 ".sub.3" near40 phosphor	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 11:37
S98	67	("electron blocking") near20 (phosphor luminescent fluorescent)	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 11:59
S99	7	("electron blocking") near10 (PVK)	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 12:12
S100	29	(PVK) near10 ("emissive layer") ("emission layer")	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 12:31
S101	12	S100 and @ad<"20030723"	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 12:35
S102	10	("hole blocking") near10 (PVK !\$1ppy)	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 13:09
S103	2308308	(amount light hole blocking layer range ("0.1 to 50%") emitting).clm.	US_PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:03

S104	0	(amount light hole blocking layer range ("0.1 to 50%") emitting).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2008/03/26 14:03
S105	0	(amount light electron blocking layer range ("0.1 to 50%") emitting).clm.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	AND	ON	2008/03/26 14:04
S106	17	"20030059647" "6580213" "20040043251"	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/26 14:45
S107	3	("20030059647" "6580213" "20040043251").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/03/26 14:47
S108	1	S102 and liu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:48
S109	0	S101 and liu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:48
S110	0	S100 and liu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:49
S111	18	(second near1 ("hole blocking"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:50
S112	1	S111 and liu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:50
S113	1	S102 and liu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:51

S114	430	Jie and liu.in.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:53
S115	162	S114 and @ad<"20030723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:53
S116	0	S115 and ("hole blocking")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:54
S117	0	S115 and PVK	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:54
S118	20	S114 and PVK	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 14:54
S119	10	("hole blocking") near10 (PVK Ir\$1ppy)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 15:01
S120	4	S119 and @ad<"20030723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 15:01
S121	4	(PVK near20 ("hole blocking")) and @ad<"20030723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 15:03
S122	12	((PVK Ir\$1ppy Firpic) near20 ("hole blocking")) and @ad<"20030723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 15:35

S123	41	(Firpic) near20 (("emission layer") ("emitting layer"))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 15:41
S124	3	S123 and @ad<"20030723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 15:41
S125	2	"20020182441".pn.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/03/26 16:17
S126	1	"20020182441".pn.	US-PGPUB	OR	ON	2008/03/26 16:17
S127	176	("hole blocking") near2 ((("2") second)	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/01 07:54
S128	24	("hole blocking") near2 ((("2") second)	EPO; JPO; DERWENT	OR	ON	2008/04/01 07:54
S129	294	(hole near1 block\$3 near2 second)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/04/01 07:57
S130	181	S129 and @ad<"20030723"	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/04/01 07:57
S131	1	(organic electroluminescent anode cathode light emitting layer phosphorescent hole blocking adjacent range "0.1" 50% electron amount). clm.	US-PGPUB; USPAT; USOCR	AND	ON	2008/04/08 16:21
S132	1	(organic electroluminescent anode cathode light emitting layer phosphorescent hole blocking adjacent range "0.1" 50% electron amount). clm.	US-PGPUB; USPAT; USOCR	AND	ON	2008/04/08 16:21
S133	1	"6541909".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/14 08:40
S134	3126	("hole blocking layers")	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/14 11:26

S135	452	S134 and (electroluminescent OLED OELD) and @ad- <20030723"	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/14 11:27
S136	448	S134 and (electroluminescent OLED OELD) and @ad- <20030723"	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/14 11:28
S137	35	S135 and (second with ("hole blocking"))	US-PGPUB; USPAT; USOCR	OR	OFF	2008/04/14 11:29
S138	1	"6951694".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/15 06:57
S139	1	"6541909".pn.	USPAT	OR	ON	2008/04/15 07:03
S140	3	("6541909" "20020197554" "6951694").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/04/15 13:35
S141	47	((("hole blocking") with ("% percent)) and (emit\$5 with ("% percent)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/30 08:25
S142	13	("20020038867" "20040146744" "4356429" "4539507" "4720432" "4768292" "5093698" "5247190" "5601903" "5807627" "6423429" "6566807" "6589673").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:39
S143	4	("6268965" "6497598" "6670772" "6699597").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:44
S144	8	("20030091860" "20040056266" "20040066135" "20040094452" "20040110031" "20040214041" "6358633" "6750608").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:45
S145	9	("20010052751" "5466950" "6281627" "6338908" "6458475" "6541909" "6566807" "6693352" "6916554").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:47

S146	35	(["20010053462" "20020050786" "20020071963" "20030170491" "5231329" "5540999" "5703436" "5707745" "5721160" "5756224" "5757026" "5757139" "5811833" "5834893" "5837391" "5844363" "5861219" "5874803" "5917280" "5922396" "5932895" "5953587" "5981306" "5986268" "5986401" "5998803" "6005252" "6013538" "6013982" "6097147" "6303238" "6420031" "6469437" "6580213" "7009338").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:48
S147	5	(["20030143430" "4760006" "5366811" "5466392" "6541129").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:50
S148	6	(["5701055" "5742129" "5909081" "5952037" "6114088" "6373182").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:51
S149	17	(["20020134984" "20030230980" "4769292" "5247190" "5703436" "5707745" "5834893" "5844363" "6013982" "6087196" "6091195" "6097147" "6294398" "6303238" "6337102" "6468819" "6565994").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:53
S150	5	(["4951041" "5296920" "5479272" "5684365" "6400347").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:55
S151	4	(["5393614" "6010796" "6310360" "6312836").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:55
S152	6	(["5457565" "5684365" "5739635" "5952779" "5969474" "6180963").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:56
S153	5	(["5457565" "5648181" "5820996" "5952779" "5969474").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 08:57
S154	1	"20030059647".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 09:02
S155	1	"6541909".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 09:07
S156	47	((("hole blocking") with ("% percent)) and (emit\$5 with ("% percent)))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/30 12:54

S157	12	S156 and @ad<"20030723"	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 12:54
S158	5	((hole near1 block\$3) with (lumen luminosity))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 13:04
S159	0	((electron near1 block\$3) with (lumen luminosity))	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 13:05
S160	0	((electron near1 block\$3) with (lumen luminosity))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/30 13:05
S161	5	((hole near1 block\$3) with (lumen luminosity))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/30 13:05
S162	7	((("electron blocking") with ("%" percent)) and (emit\$5 with ("%" percent))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/30 13:09
S163	111	((suzuri).in. with yoshiyuki) ((kita).in. with hiroshi) ((nakata).in. with aki)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 14:26
S164	35	S163 and (hole near1 blocking) and "%" and light and emitting	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 14:28
S165	30	S164 and phosphorescent	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 14:28
S166	111	((suzuri).in. with yoshiyuki) ((kita).in. with hiroshi) ((nakata).in. with aki)	US-PGPUB; USPAT; USOCR	OR	ON	2008/12/30 14:31
S167	0	S166 and (hole blocking %" light emitting).clm.	US-PGPUB; USPAT; USOCR	AND	ON	2008/12/30 14:31
S168	1	S166 and (organic electroluminescent element anode cathode phosphorescent hole blocking light emitting amount layer).clm.	US-PGPUB; USPAT; USOCR	AND	ON	2008/12/30 14:33
S169	1	"6541909".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/06 09:09
S170	4798	(428/690,917).cds.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/06 09:27
S171	915	S170 and (phosphor\$8 with dop\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/06 09:28
S172	332	S171 and @ad<"20030723"	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/06 09:28

S173	11	S172 and ((hole near1 block \$3) with dop\$4 with phosphor\$8)	US-PGPUB; USPAT; USOOR	OR	ON	2009/01/06 09:33
S174	857856	(Firpic Ir(ppy))	US-PGPUB; USPAT; USOOR	OR	ON	2009/01/06 10:40
S175	1481	S174 and (428/690,917). ccls.	US-PGPUB; USPAT; USOOR	OR	ON	2009/01/06 10:40
S176	506	S175 and @ad< "20030723"	US-PGPUB; USPAT; USOOR	OR	ON	2009/01/06 10:40
S177	346	(Firpic "Ir(ppy)")	US-PGPUB; USPAT; USOOR	OR	ON	2009/01/06 10:42
S178	138	S177 and (428/690,917). ccls.	US-PGPUB; USPAT; USOOR	OR	ON	2009/01/06 10:43
S179	27	S178 and @ad< "20030723"	US-PGPUB; USPAT; USOOR	OR	ON	2009/01/06 10:43
S180	9	(firpic near4 phosphor)	US-PGPUB; USPAT; USOOR	OR	ON	2009/01/06 10:48
S181	9	(firpic near4 phosphor)	US-PGPUB; USPAT; USOOR	OR	ON	2009/01/06 12:12
S182	0	S181 and ("electron block \$3") with Firpic)	US-PGPUB; USPAT; USOOR	OR	ON	2009/01/06 12:12
S183	32430	(313/498-512 315/169,1,169,3 428/690- 691,917 438/26-29,34,82 257/40,72,98-100,642- 643,759 427/66,532- 535,539).cds.	US-PGPUB; USPAT; USOOR	OR	ON	2009/01/06 12:13
S184	961	S183 and ("electron blocking")	US-PGPUB; USPAT; USOOR	OR	ON	2009/01/06 12:13
S185	0	S184 and ("electron block \$3") with Firpic)	US-PGPUB; USPAT; USOOR	OR	ON	2009/01/06 12:13
S186	0	(("electron block\$3") with Firpic)	US-PGPUB; USPAT; USOOR; FFPS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/06 12:13
S187	7	((electron near1 block\$3) with Firpic)	US-PGPUB; USPAT; USOOR; FFPS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/06 12:14
S188	0	((electron near1 block\$3) with "Ir(ppy).sub.3")	US-PGPUB; USPAT; USOOR; FFPS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/06 12:20

S189	0	((electron near1 block\$3) with "Ir(ppy)")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/06 12:20
S190	136	((electron near1 block\$3) with phosphor\$8)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/01/06 12:20
S191	346	(Firpic "Ir(ppy)")	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/06 12:25
S192	138	S191 and (428/690,917). ccls.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/06 12:25
S193	27	S192 and @ad<"20030723"	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/06 12:25
S194	25	S193 and (emissive with Ir (ppy).sub.3")	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/06 12:25
S195	1	"20030124381".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/06 15:07
S196	1	"20030068528".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/06 15:10
S197	1	"20030059647".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/06 15:38
S198	3	("20030068528" "20050170621" "20030124381").pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/07 06:50
S199	1	"6803720".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/01/07 06:53
S200	10	((("light emitting") luminescent) near1 (layer film)) with ("%" per\$1cent \$3) with dopant with "hole blocking"	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 10:00
S201	156	("hole blocking") with ("%" per\$1cent\$3) with dop\$3	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 10:11
S202	146	S201 not S200	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 10:11
S203	322	("hole blocking") with ("%" per\$1cent\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 10:25
S204	176	S203 not S202	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 10:25
S205	22	("electron blocking") with ("%" per\$1cent\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 12:21
S206	67	("electron blocking" "EBL") with ("%" per\$1cent\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 12:23
S207	45	S206 not S205	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 12:23

S208	380	("hole blocking" "HBL") with ("%" per\$1cent\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 12:27
S209	322	("hole blocking") with ("%" per\$1cent\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 12:27
S210	58	S208 not S209	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 12:27
S211	0	("electron blocking" "EBL") with ("%" per\$1cent\$3)	FPRS; EPO; JPO; DERWENT	OR	ON	2009/08/03 14:21
S212	11	("hole blocking" "HBL") with ("%" per\$1cent\$3)	FPRS; EPO; JPO; DERWENT	OR	ON	2009/08/03 14:22
S213	31	((YOSHIYUKI) near2 (SUZURI)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 14:24
S214	125	((HIROSHI) near2 (KITA)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 14:25
S215	1	((AKI) near2 (NAKATA)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 14:25
S216	126	(S213 S214 S215)	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/03 14:25
S217	1	S216 and ("0.1" 50% amount light emitted layer).clm.	US-PGPUB; USPAT; USOCR	AND	ON	2009/08/03 14:29
S218	1	"20020180347".pn.	US-PGPUB; USPAT; USOCR	OR	ON	2009/08/10 08:17
S219	162	(hole near1 block\$3) with (lumen luminosity brightness transmittance transmission)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/11 06:48
S220	49	(electron near1 block\$3) with (lumen luminosity brightness transmittance transmission)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/11 06:48
S221	6	S219 and S220	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/11 06:48
S222	1	(hole near1 block\$3) with (lumen luminosity brightness transmittance transmission) with ("%" per \$1cent\$3)	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/11 06:50
S223	1	(hole near1 block\$3) near40 ((lumen luminosity brightness transmittance transmission) with ("%" per \$1cent\$3))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/11 06:51

S224	0	S223 not S222	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/11 06:52
S225	7	(hole near1 block\$3) near40 ((lumen luminance luminosity brightness transmittance transmission) with ("% per\$1cent\$3))	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/11 06:53
S226	8	(hole near1 block\$3) near40 ((efficiency lumen luminance luminosity brightness transmittance transmission) with ("% per \$1cent\$3))	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/11 07:03
S227	7	(hole near1 block\$3) near40 ((lumen luminance luminosity brightness transmittance transmission) with ("% per\$1cent\$3))	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/11 07:04
S228	1	S226 not S227	US-PGPUB; USPAT; USOOR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/11 07:04
S229	1	"20020191131".pn.	US-PGPUB; USPAT; USOOR	OR	ON	2009/08/11 10:38
S230	3277	("color filter") with (recess groove ditch opening)	US-PGPUB; USPAT; USOOR	OR	ON	2009/08/11 11:00
S231	1184	S230 and @ad<"20030723"	US-PGPUB; USPAT; USOOR	OR	ON	2009/08/11 11:01
S232	945	S231 and display	US-PGPUB; USPAT; USOOR	OR	ON	2009/08/11 11:01
S233	132	S230 and ("adhesive film" "adhesive layer")	US-PGPUB; USPAT; USOOR	OR	ON	2009/08/11 13:08
S234	43	S233 and @ad<"20030723"	US-PGPUB; USPAT; USOOR	OR	ON	2009/08/11 13:08
S235	4	S234 and (adhesive with recess)	US-PGPUB; USPAT; USOOR	OR	ON	2009/08/11 13:16
S236	86	("color filter" with (groove recess ditch opening)) and (adhesive with (groove recess ditch opening))	US-PGPUB; USPAT; USOOR	OR	ON	2009/08/11 13:19

S237	106	("color filter" with (groove recess ditch opening)) and (adhesive with (groove recess ditch opening))	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/11 13:19
S238	61	("two part" with "color filter")	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/11 13:41
S239	37598	(313/498-512 315/169.1,169.3 428/690- 691,917 438/26-29,34,82 257/40,72,98-100,642- 643,759 427/66,532- 535,539).cds.	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 13:57
S240	2723	S239 and "hole blocking"	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 13:58
S241	2736	S239 and ("hole blocking" "HBL")	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 13:58
S242	1925	S241 and (dopant doping)	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 13:58
S243	32	S242 and ((dopant doping) with (weight near1 percent \$3))	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 13:59
S244	32	S242 and ((dopant doping) with (weight near3 percent \$3))	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 14:15
S245	2260	S241 and (dopant doping doped)	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 14:16
S246	335	S245 not S242	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 14:16
S247	0	S246 and ((dopant doping) with (weight near3 percent \$3))	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 14:16
S248	1	S246 and ((dopant doping doped) with (weight near3 percent\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 14:17
S249	33	((YOSHIYUKI) near2 (SUZURI)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 14:19
S250	136	((HIROSHI) near2 (KITAI)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 14:19
S251	1	((AKI) near2 (NAKATA)).INV.	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 14:19
S252	0	(S249 S250 S251) and ("%" by weight" phosphorescent compound hole blocking cathode anode light emitting layer range).cdm.	US-PGPUB; USPAT; USOCR	AND	ON	2010/02/01 14:21

S253	0	(S249 S250 S251) and ("% by weight" phosphorescent compound hole blocking cathode anode light emitting layer range).clm.	US-PGPUB; USPAT; USOCR	AND	ON	2010/02/01 14:22
S254	0	(S249 S250 S251) and (weight phosphorescent compound hole blocking cathode anode light emitting layer range).clm.	US-PGPUB; USPAT; USOCR	AND	ON	2010/02/01 14:22
S255	86	(S249 S250 S251) and ("OLED" "organic electroluminescent" "organic EL")	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 14:24
S256	19	S255 and (hole blocking).clm.	US-PGPUB; USPAT; USOCR	AND	ON	2010/02/01 14:24
S257	7	S256 and weight.clm.	US-PGPUB; USPAT; USOCR	AND	ON	2010/02/01 14:24
S258	1345	S239 and ("electron blocking" "EBL")	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 14:28
S259	1161	S258 and (dopant doping doped)	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 14:28
S260	20	S259 and ((dopant doping doped) with (weight near3 percent\$3))	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 14:28
S261	37598	(313/498-512 315/169.1,169.3 428/690-691,917 438/26-29,34,82 257/40,72,98-100,642-643,759 427/66,532-535,539).cds.	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 15:43
S262	24	"T-T annihilation" and S261	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/01 15:43
S263	0	("OLED" "OELD" "organic electroluminescent" "organic EL") and ("hole blocking" "HBL") and ("electron blocking" "EBL") and weight and ("% percent\$3) and (dopant doping doped)	EPO; JPO; DERWENT	OR	ON	2010/02/01 16:14
S264	5	("OLED" "OELD" "organic electroluminescent" "organic EL") and ("hole blocking" "HBL" "electron blocking" "EBL") and weight and ("% percent\$3) and (dopant doping doped)	EPO; JPO; DERWENT	OR	ON	2010/02/01 16:15
S265	1612	(electroluminescen\$2) and (hole near1 block\$3) and (electron near1 block\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/02 06:30
S266	970	(re\$1combination re \$1emission re\$1absorption re\$1capture) and S265	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/02 06:30

S267	244	S266 and @ad<"20030723"	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/02 06:30
S268	37636	(313/498-512 315/169,1,169.3 428/690- 691,917 438/26-29,34,82 257/40,72,98-100,642- 643,759 427/66,532- 535,539).cds.	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/02 06:33
S269	40	S268 and (re\$1emission re \$1absorption re\$1capture) and S265	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/02 06:33
S270	34	S269 and @ad<"20030723"	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/02 06:33
S271	5	S268 and (re\$1emission re \$1capture) and S265	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/02 06:36
S272	0	S268 and (re\$1capture) and S265	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/02 06:36
S273	0	(re\$1capture) and S265	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/02 06:37
S274	5	(re\$1capture) and S268	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/02 06:37
S275	0	("collision of excitons") and S268 and @ad<"20030723"	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/02 06:39
S276	4	(collision near3 exciton\$1) and S268 and @ad<"20030723"	US-PGPUB; USPAT; USOCR	OR	ON	2010/02/02 06:39

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